

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO15065

Purchase Order Date 9/30/2011 PO Print Date 9/30/2011

Page Number 2 of 4

Order From:

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100

TORONTO, ON M4Y 3A5

CA

Contact Name

Vendor Phone

514 694 9575

Vendor Fax

514 695 3281

Vendor Account Nbr

Buyer

Brigitte Golden

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms Currency Net 30 CAD

FOB

Destination-Collect

Special Inst:

6061-T6/T651/T6510/T6511/T62

ALUMINUM BAR

SPEC; QQ-A-225/8 OR AMS-QQ-A-225/8

(OR AMS 4117/4128/4115/4116)

OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR

AMS 4160)

OR ASTM B211 OR ASTM B221

M6061T6B0.750X06.000

6061T6 BAR .750 X 6.00

10/4/2011

24.00 Yours ppd f

\$12.3300

\$295.92

Yes

Special Inst:

6061-T6/T651/T6510/T6511/T62

ALUMINUM BAR

SPEC: QQ-A-225/8 OR AMS-QQ-A-225/8

(OR AMS 4117/4128/4115/4116)

OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR

AMS 4160)

OR ASTM B211 OR ASTM B221

M6061T6B1.250X01.250

6061-T6 Bar 1.25 x 1.25

10/4/2011

20.00 Yours ppd

f

\$3.9400

\$78.80

Special Inst:

SAME AS ABOVE

Yes

Yes

M174B1.250X02.000

17-4 SS Bar 1.250 x 2.00

10/4/2011

20.00 Yours ppd

f

\$56.9100

\$1,138.20

Special Inst:

17-4 PM SS BAR PER AMS 5604/5643 GRAIN MUST BE ALONG LENGTH OF

BAR

MIN: YIELD TENSILE STRENGTH=100KSI MIN: ULTIMATE TENSILE STRENGTH=150KSI

> No substitution or deviation without consent.

Certificate of Conformity or Material

Change Nbr:

Change Date: 9/30/2011

Certification required when applicable



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO15065

Purchase Order Date 9/30/2011 **PO Print Date** 9/30/2011

Page Number 3 of 4

_	Order From: METAUX CASTL A.M. CASTLE & C TORONTO, ON M CA	O. (CANADA	A) INC BOX B9204	/C-MET001 4 PO BOX 9	100	•		
_	Contact Name Vendor Phone Vendor Fax Vendor Account Nbr	514 694 9575 514 695 3281		,	Buyer Requisition Nbr Tax Resale Nbr Terms Currency FOB	Brigitte Golden 10127-2607 Net 30 CAD Destination-Collect	ot .	
7	M6061T6B1.500X	01.500	5061-T6 Bar 1.50 x 1.50	10/4/2011 Yes		• • •	\$5.0600	\$60.72
8	M6061T6R3.500	é	Special Inst:	SAME AS L 10/4/2011 Yes	12.00		\$27.6200	\$331.44
			Special Inst:	ALUMINUM SPEC: QQ-A 225/8(OR AI OR QQ-A-20 AMS 4160)	51/6510/T6511/T62 4 ROUND BAR 1-225/8 OR AMS-Q-A MS 4117/4128/4115/4 00/8OR AMS-QQ-A-2 1211 OR ASTM B221	116)		
9	M6061T6R0.750	6	061-T6 Round Bar .750"	10/4/2011 Yes	70.00		\$1.3100	\$52.40
,			Special Inst:	SAME AS A	BOVE			
10	M304R1.500	3	04 round bar 1.500	10/4/2011 Yes		Yours ppd	\$16.4000	\$196.80
			Special Inst:	AISI 304/316 (NOTE: AISI SPEC: ASTM	SS ROUND BAR 303 NOT ACCEPTAI I A276	BLE)		
1.1	1 (() () () () () () ()							

No substitution or deviation without consent.

\$3.8800

\$46.56

Change Nbr:

11

1

M6061T6H1.000

Change Date: 9/30/2011

6061-T6 HexBar 1.00

10/4/2011

Yes

12.00 Yours ppd

f

Certificate of Conformity or Material Certification required when applicable



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO15065

Purchase Order Date 9/30/2011 PO Print Date 9/30/2011

Page Number 4 of 4

Order From:

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100

TORONTO, ON M4Y 3A5

CA

Contact Name

Vendor Phone

514 694 9575

Vendor Fax

514 695 3281

Vendor Account Nbr

Buyer

Brigitte Golden

Requisition Nbr

Tax Resale Nbr

Net 30

Terms Currency

CAD

10127-2607

Yours ppd

FOB

Destination-Collect

Special Inst:

6061-T6/T651T6510/T6511/T62

ALUMINUM HEX BAR

SPEC: QQ-A-225/8 OR AMS-QQ-A-225/8

(OR AMS4117/4128/4115/4116)

OR QQ-A-200/8 OR AMS-QQ-A-200/8(OR AMS 4160) OR ASTM B211 OR ASTM

B221

12 M6061T6B1.500X04.000

6061T6 Bar 1.500 x 4.00

10/4/2011

12.00

\$15.8800

\$190.56

Special Inst:

SAME AS LINE #4

13 M6061T6B1.500X02.000

6061-T6 Bar 1.50 x 2.00

10/4/2011

12.00

Yours ppd \$7.9300

\$95.16

Yes

Yes

.

Special Inst:

SAME AS ABOVE

PO Total:

\$5,495.36

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

1

Change Date:

9/30/2011

Brigitte Golden

From:

Desbiens, Marc <mdesbien@amcastle.com>

Sent:

Friday, September 30, 2011 10:19 AM

To:

Brigitte Golden

Subject:

RE: RFQ

Hi Brigitte,

12 x 6061T6 Bar 1.500 x 1.500 \$ 5.06 F 12 x 6061T6 round bar 3.500 \$ 27.62 Ft

12 x 4140N bar 1.500 x 1.500 \$ 11.70 Ft (4140 annealed)

40 x 6061T6 round bar .750 \$ 1.31 Ft 6

12 x 304 round bar 1.500

\$ 16.40 Ft 2

12 x 6061T6 Hex bar 1.000 \$ 3.88 Ft •

12 x 6061T6 bar 1.500 x 4.000 \$ 15.88 Ft #

12 x 6061T6 Bar 1.250 x 4.500 offer 1.50" x 5,00" \$ 19.87 Ft

12 x 6061T6 Bar 1.500 x 2.000 \$ 7.93 Ft V

60 x 4130N Bar .500 x 3.00 \$ 26.10 Ft 80 x 304 Bar .500 x 2.500 \$ 13.10 Ft

24 x 6061T6 Bar .750 x 8.000 \$ 16.45 Ft

24 x 6061T6 Bar .750 x 6.000 \$ 12.33 Ft 1/2

20 x 6061T6 Bar 1.250 x 1.250 \$ 3.94 Ft i

20 x 17-4PH Bar 1.250 x 2.00 \$56.91 Ft (

7-8 days except for 60 x 4130N Bar .500 x 3.00---> 10 days

Thank You

This E-mail may contain proprietary information and may be confidential. You are to treat this material in accordance with your company's confidentiality policies and limit any distribution accordingly. If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.



Page 1 of 1

Shipment No:1018982

Ship From:	Solc	Sold To:	Ship To:	Deliver To:
A. M. Castle & Co. (C	anada) DAF	A. M. Castle & Co. (Canada) DART AEROSPACE LTD	DART AEROSPACE LTD	DART AEROSPACE LTD
lnc.	127	1270 ABERDEEN	1270 ABERDEEN	1270 ABERDEEN
MONTREAL	HAV	HAWKESBURY, ON K6A 1K7	HAWKESBURY, ON K6A	HAWKESBURY, ON
835-SELKIRK AVENUE	UE CA		1K7 CAN	K6A 1K7
POINTE CLAIRE, QUEBEC	JEBEC			CA
H9R 3S2			-	
Date Shipped	F.O.B.	Freight Terms	Carrier	BOLNo
12-OCT-2011	ORIGIN	Prepaid	LOCAL_FLEET	1018982-5

Shipment Details			Final Destination Branch - MON	Branch - MON		
Order No	Line No	Item No	Description			
1742903		8102	1.5000.SQ.6061.T6511.ALUMINUM.EXT.144.0000	3511.ALUMINU S: AMS QQ-A-2	M.EXT.144.00 200/8,ASTM B	00 221
Purchase Order No	•	Part Number	Ordered Qty		Invoice Qty	ıty
15065			12.00 FT		12 FT	
Details		(
Delivery No.	Mill	Heat Number	Mech Id PCS	Width (IN)	Length (IN)	Width (IN) Length (IN) Shipped Qty(LBS)
97910333		20215091	(1)		144	31.68

These commodities/lectinologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Name:

Date:

Reviewed by Authorized Castle Metals Representative:

1 of 2

Page Page

Cert Print Date 02-AUG-09

Cert Creation Date

Customer P/O

10-44877-1

Line No.

02-AUG-09

Cert Number SAPA98075

Sapa Industrial Extrusions S3 POTTSVILLE STREET	Carrier and a second
Sapa	

CRESSONA, PA

Sapa Extrusions Inc., a Subsidiary of Sapa AB 17929-0187

A M CASTLE & COMPANY 3400 NORTH WOLF ROAD Attn: Susan Queisser Invoice To Customer

FRANKLIN PARK, IL - 60131

A M CASTLE & COMPANY 26800 MILES RD Ship To Customer

BEDFORD HEIGHTS, OH - 44146

Certified Inspection Report Sales Order Number CustomerPart No. Quantity Shipped 1100093032 Delivery Id 4034276 64344 8102 1010 K

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on Applicable Specifications, Revisions and Exceptions

Marking CONTINUOUS;
ASTMB221 REV 08
AMS-QQ-A-200/8 REV
ASMESB221 REV 99
UNS#A96061 REV

Item No. Rev G03363678

Item No.

6061 / T6511 HIN M-MILL W/F 2.646 F 02 CS 2.1

Extruded Square Bar 44.000 IN LN

50050

Item Description

Date Shipped 02-AUG-09

this certified inspection report. Remainder is Aluminum.

We hareby certify that, unless otherwise indicated, the material covered by this report has been manufactured, inspected, and

Legal Statement

be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Quantities per Lot / Packages

Package Number

G12-PKG1084874 G12-PKG1084877

Signature And Title Dave A Lukasak Registal in accordance with, and has been found to meet, the applicable requirements described herein, including any specializations forming a part of the description and that samples representative of the material met the composition and had the mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and netther it not any of its compounds are used in the manufacture of our product. This certification is not to

Tech/Quality Manager

02-AUG-09

CASTL METALS CORE

505 ž ŠŠ Gross 210 210 Š COM 8 Quantity 9 9 20215091 20215091

Composition Limits

Zn	Mex		0.25	
.4	MGb		1	_
3-,	Max		0.35	
8	MB		* 0.0	
Mg	Mex		1.2	_
	Min		3 3	
Ma	Mex		0.15	
2	Min		ļ	
70	Max	0,0	3	
	Min	2,0	C	
Se .	Max	20	3	
	Min		1	
T.	Max	80	2	
3	M.	0%0	} 5	
Alloy		4061	2000	

d		Sapa Industrial Extrusions 53 POTTSVILLE STREET	trusions STR FFT		O	ertifie	l Inst	ection	Certified Inspection Report		<u> </u>	Cert Number		Page	
)					Ľ						••••	SAPA98075		Page 2 of 2	63
ı	•	CRESSONA, PA				Sales Order Number	mber	Line No.		Customer P/O		Cert Creation Date	Date	Cert Print Date	
		17929-0187			_]	1100093032				10-44877-1	``	02-AUG-09		02-AUG-09	
		F	2		á	-									
Alloy					?		Š	Others Each	Others Total	Total					
yenu	WIla	Max	Min	Max	Mfh	Max	Mgn	Max	Min	Max					
6061	1	0.15	1	<u> </u>		1	1	0.05	ı	0.15					
Composition Results	Results							-							
Heat / Cast	is	Fe	5	¥.	Me	2	-	-							
5051424	20	200				5	-	-	17	1	ජ £	Others Each	Others Total		
	3	0.64	-	0.03	6.0	0.04	ب	0.04	0.01		1	-			
Mechanical Pr	Mechanical Property - Test Limits														
		Test Type		DIS-L			TYS-L		2	EL 4D-Long					
-		MOO	ž	KSI			KSI			PCT					
		#of Test	75				1			1	T				
Test Temper	Lot Number	er # of Tests	MIN Value		GX Value	MIN Val.	3	MAX Value MIN Value MAX Value	MIN Value	MAX Value	2				
T6511	20215091	4	42.1		443	37.1		40.7	16.6	17.8	c e				
Cert Notes											Accession to the contract of t				
Products manufa	coured with a To	Products manufactured with a T6511 temper also meet T6 temper requirements.	et T6 temper requ	uirements.											
Yield strength ha	is been determin	Yield strength has been determined by the 0.3% offcet method	't method												
All Alloys Produs	oed at Sapa Indo	AB Alloys Produced at Sapa Industrial Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6262 alloy Made in USA	mply with 0.4% h	Maximum 1	Lead per RoHis	i, with the exc	eption of 62	62 alloy							
				-								•			



A. M. Castle & Co.

Page 1 of 1

Shipment No:1018982

Ship From:	Sold To:	Ship To:	Deliver To:
A. M. Castle & Co. (Cana	A. M. Castle & Co. (Canada) DART AEROSPACE LTD	DART AEROSPACE LTD	DART AEROSPACE LTD
lnc.	1270 ABERDEEN	1270 ABERDEEN	1270 ABERDEEN
MONTREAL	HAWKESBURY, ON K6A 1K7	HAWKESBURY, ON K6A	HAWKESBURY, ON
835-SELKIRK AVENUE	CA	1K7 CAN	K6A 1K7
POINTE CLAIRE, QUEBEC			CA
H9R 3S2			
F	.B. Freight Terms	Carrier	BOL No
12-OCT-2011 OF	ORIGIN Prepaid	LOCAL FLEET	1018982-5

Shipment Details			Final Destination Branch - MON	Branch - MON		
Order No	Line No	Item No	Description			
1742903	2	21200	3.5000 PD.6061.T6511.ALUMINUM.EXT.144.0000	6511.ALUMINU	M.EXT.144.00	00
			SPECIFICATIONS: AMS QQ-A-200/8, AS I'M BZZI	U. AINIU CC-A-A	COU/S, AS I M B	- 7
Purchase Order No		Part Number	Ordered Qty		Invoice Qtv	τν
(15065 /			12.00 FT		12 FT	
Details						
Delivery No.	Mill	Heat Number	Mech Id PCS	Width (IN)	Lenath (IN)	Width (IN) Lenath (IN) Shipped Oty(LBS)
97710319	SERVICE	201113325 /			144	135.77
	CENTER	<u>_</u>			•	
	METALS LLC					

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description.

Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 80 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Heviewed by Authorized Castle Metals Representative:

Name:

Date:

Castle Metals FF

HEAT NUMBÉR	20111.3323
MECHANICAL ID	The second secon
	21200
ITEM CODE	Andreas State of the Control of the
LOT NUMBER	132770
PO NUMBER	9/12/11
RECEIPT DATE	S.C.M
SUPPLIER	
SPECIFICATION_	No
LC8	The second secon
COMMENT	3.7
APPROVED	- Parker State Control of the Contro



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

SERVICE CENTER METALS Prince George, VA 23875 5850 Quality Way

оия окрек иливек 134567 1	cernification ASTM-B221-08 StencilContinuous	SPECIFICATION AMS-QQA-200/8	SPECIFICATION A96061-03
	DATE OF SHIPMENT 9/8/2011	salesperson David Schroeder	
	DIE NUMBER RD0026	ALL'OY / TEMPER 6061-T6511	ROD 3,500 +/012
	MANIFEST NUMBER 139639	cusromer po 132770	customer part númber 21200
			14 pcs
	npany	прапу	
	вит го A. M. Castle and Company	sнip то A. M. Castle and Company	Quantity Certified 1,900 lbs

revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and that the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada. We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification

Items produced and certified as 6061-76511 also meet the requirements of 6061-T6

Mech	Mechanical Properties					
Test No	Test No. Lot No.	5/0/1	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
9	201113325	f	08/25/11	52.3	48.7	15.0
92	201113325/		08/25/11	52.8	49.4	15.0
			7 1744		1	

ical Composition for Aluminum Alloy 6061
Composition for Alur
Composition for
ical Compo
Chem

F	0.01
Zu	0.01
ان ان	0.08
Mg	0.89
Mn	0.09
리	0.32
ᆈ	0.38
ا ن	0.74
Alloy	6061 6061
Cast Number	C29J1005 C29J1007

United States of America

Melted In

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/06/07 - UMS

Print Date: 9/8/2011



Page 1 of 1

Shipment No:1018982

1. Castle & Co. (Canada)		Spin To.	Dolling, To.
A. M. Castle & Co. (Canada)			
2	DART AEROSPACE LTD	DART AEROSPACE LTD	DART AEROSPACE LTD
	1270 ABERDEEN	1270 ABERDEEN	1270 ARFRICEN
MONTREAL	HAWKESBURY, ON K6A 1K7	HAWKESBIBY ON KEA	HAMKESBIDY ON
835-SELKIRK AVENUE	CA	1K7 CAN	74VKTSBOD1, ON
POINTE CLAIRE, QUEBEC			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
H9R 3S2			()
Date Shipped F.O.B.	Freight Terms	Carrier	BOI No
12-OCT-2011 ORIGIN	Prepaid	I OCAL FI FET	1018080 E

Shinment Details					
			rinal Destination Branch - MON	Branch - MON	
Order No	Line No	Item No	Description		
1742903	4	21162	0.7500.RD.6061.T6511.ALUMINUM.EXT.144.0000	3511.ALUMINUM.	EXT.144.0000
			0 501100	つりてうぎついてい	0,731 IVI DZZ I
Purchase Order No		Part Number	Ordered Otv		Invoice Otv
(15065)			48.00 FT		48 FT
Details					
Delivery No.	Mill	Heat Number	Mech Id PCS	Width (IN)	Width (IN) Length (IN) Shipped Oty/I BS)
97917309	SERVICE	201016911	4	144	05 AA
	CENTER			r* 	
	METALS LLC				

These commodities/lechnologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material and provided and the conforms for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Name:

Date: Reviewed by Authorized Castle Metals Representative:

Mal

Date Printed: 12-OCT-2011 04:38:55 PM

SERVICE CENTER METALS

Prince George, VA 23875 5850 Quality Way

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER

tems produced and certified as 6061-76511 also ASTM-B221-08 StencilContinuous meet the requirements of 6061-T6 AMS-QQA-200/8 119315 A96061-03 CERTIFICATION SPECIFICATION SPECIFICATION revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. David Schroeder We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification 1/4/2011 SALESPERSON DATE OF SHIPMENT ROD .750 +/.004 6061-T6511 RD0003 ALLOY TEMPER PESCHIPTION DIE NUMBER CUSTOMER PART NUMBER 87540 21162 MANIFEST NUMBER CUSTOMER PO 865pcs 5,396 lbs A. M. Castle and Company A. M. Castle and Company Quantity Certified

SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada

201016911 Castle Metals Fp 4010169 HEAT NUMBER MECHANICAL ID ITEM CODE SPECIFICATION LOT NUMBER RECEIPT DATE PO NUMBER SUPPLIFA COMMENT APPROVED. బ్ద

Chemical Composition for Alloy 6061

₹	Remainder	
ther: Each Total	0.15 0.05 0.15	
ï	0.15	ı
Zn	0.25	•
ට්	0.35	0.04
Wd	1.2	0.8
M	0.15	
리	0.40	0.15
TI OI	0.7	•
i <u>s</u>	0.8	0.40
,	Max	Σij
Alloy	6061	

United States of America

Melted In

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/06/07 - UMS

Print Date: 1/4/2011

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER

SERVICE CENTER METALS 5850 Quality Way Prince George, VA 23875

BILL TO			:	119315
A. M. Castle and Company ship to		MANITES! NUMBER 121548	DIE NUMBER DATE OF SHIPMENT RD0003 114/2011	CERTIFICATION ASTM-8221-08 Stendil Confidential
A. M. Castle and Company		87540	ALLOY/TEMPER SALESPERSON (6061-T6511) David Schroeder	
Quantity Certified 5,396 lbs	865pcs	CUSTOMER PART NUMBER 21162	/ 4	SPECIFICATION

MANIFEST NUMBER	DIE NUMBER DATE OF SHIPMENT	IPMENT		-
A. W. Castle and Company customer Processing Action (197548)		1/4/2011	ASTM-B221-08 Stencil Continuous	offinites
37540	6061-T6511 David	Person David Schroeder	SPECIFICATION	
Quantity Certified 5,396 lbs 865pcs 21162 RC	:		AMS-QQA-200/8 SPECIFICATION	
We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the SCM extrusions are manufactured in the USA from ingot metted and cast in the I linted States.	inspected in accordance with the most recensorable herein, including any specifications to composition limits and had the mechanical property in the United States of	the	A96061-03 Items produced and certified as 6061-76511 also meet the requirements of 6061-76	ıs 6061-76511 also 1-76
Mechanical Properties				
fest No. Lot No.	Test Date	<u>Uitimate Tensile</u>	Yield Strenath	Percent
201016911		Strength (KSI)	(KSI)	Elongation
201016911	12/21/10	49.7	46.6	18.9
201016911	12/21/10	49.3	46.2	17.2
	12/21/10	49.1	46.0	18.0
201016911	12/21/10	49.2	46.0	17.5
201016911	12/21/10	48.8	45.7	16.6

15.5

12/21/10

12/21/10

18.9 18.0 18.8 16.6 15.5

45.7 46.3 46.4 46.4 45.4 46.0 46.2

> 49.3 49.5 49.5 48.8 49.1

12/21/10

201016911 201016911 201016911 201016911 201016911

5 5

12/21/10

12/21/10 12/21/10

Print Date: 1/4/2011

Come Come wante

Calvin J. Wiggins, Director of Quality & Technical Services



A. M. Castle & Co.

Page 1 of 1

Shipment No:1018982

				ZOBOTOT IND. 101090Z
Snip From:		Sold To:	Ship To:	Daliver To:
A. M. Castle & Co. /	(Canada)	A. M. Castle & Co. (Capada) DABT AEBOODACE TE	C	
)	od lada)	שוא שטארטטחדל נוילט	LOAKI AEKOSPACE LTD	DART AFROSPACE I TO
lnc.		1270 ABERDFFN	1270 ABEDAEN	
MONTBEAL			אששחרשמע 177	IZ/O ABERDEEN
		LIAWKESBORY, ON K6A 1K7	HAWKESELEY ON YEA	
1835-SELKIRK AVENUE	<u>щ</u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		LAWARDERY, ON
	1 1	5	I K CAN	K6A 1K7
POINTE CLAIRE, QUEBEC	>UEBEC			
H9B 352				CA
100			•	
Date Snipped	F.O.B.	Freight Terms	Carrior	
10 OCT 2011				BOL NO
1102-100-21		Prepaid	I OCAL ELEET	101000 1
				0.78887.0

Shipment Details			Final Destination Branch - MON
Order No	Line No	Item No	Dosogintion
4740000			
1742303	Ω	14836	1.5000.RD.304/304L.STAINLESS CF. ANN 132 0000-156 0000
			SPECIFICATIONS: AISI 304/304L.AMS 5639 AMS 5647 AMS
			QQ-S-763,ASME SA182,ASME SA193 B8 ASMF SA479 ASTM
			A182, ASTM A276, ASTM A479, ASTM A484 LINS S30400 LINS
			S30403.ASTM A193 GR B8
Purchase Order No		Part Number	
15065			invoice dry
/ 2002 /			12.00 FT
Details			
Delivery No	NA:11		
School y 140.	IVIII	Heat Number	Mech ld PCS Width (IN) Spirit China China
97710319	NORTH	/ SNNS /	†
	AMERICAN		
1	STAINLESS) 	
			<u>\</u>

These commodities/fechnologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description.

Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned

Reviewed by Authorized Castle Metals Representative:

Name:

Date:

Castie Metals FF

HEAT NUMBER	9NNS
MECHANICAL ID	11 92 (
ITEM CODE	14836
LOT NUMBER	118950
PO NUMBER	7126/11
RECEIPT DATE	NAS
SUPPLIER	NAG
SPECIFICATION	NO
LCS	
COMMENT	<i>B</i> 3
APPROVED	the state of the s